22 April 1955

MEMORANDUM FOR THE RECORD

SUBJECT REFERENCE	: Synthesis of Attributable Speech : Employee Suggestion No. 1282 of	STAT STAT
samples of the per speech. The treat some outright fabr	suggestion is for the synthesis of sol to any desired person. It involves ge son's speech and from them construction ments involved in this process, which ication, would be carried out by drawing area sound tracks, which would subsequally.	tting adequate ng the desired might include ng by hand
positively that noth sound tracks. Thi greatly dependent The ear, however, a given sound can greatly in appearant	coratories who is best qualified, from a nding in the organization, to give an organization are could be achieved by working with a sis because the appearance of the sour apon the relative phase of its componer cannot recognize these phase different be produced by a wide variety of sound note. In other words, the appearance of basic information on the sound representation on the sound representation.	experience in sinion. He stated variable-area and track is at harmonics. I consequently, tracks varying f a sound track
sort of analysis wi a Vocoder having	tant went on to say that it would be nechich is done by a Vocoder. If the analy the channels within the band of speech from second, then it would be possible to	eis were done by equencies up to,

4. I asked my consultant if he could give any estimate about the size of such a job. He replied that he could only say that it would be a big job. The way in which he emphasized big indicated to me an expense measured

together again without detection. This is the sort of analysis which, in his opinion, would be the necessary prerequisite for the desired synthesis.

B. Azı

DOCUMENT NO.

NO CHANGE IN CLASS.

L. DECLASSIFIED

CLASS CHANGED TO: TS S C 20.1

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in hundreds of thousands of dollars. There was no discussion of the time involved, but large expense inevitably involves long time.

5. The various papers on the Vocoder reprints of which were given to me were all published in 1940 or earlier. This was the period of greatest activity in this work. Since the war there has been a definite change in the emphasis on acoustics at Bell Telephone Laboratories, and it is my impression that work of this sort is considered to have passed into the region of diminishing returns and is being carried on much less actively. I expect to look into this matter during my next visit to the Laboratories.

TSS/OC: (22 April 1955)

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